

1/5

ATTCGGCACTGAGGAGTTAACACAGCTGCAAGATATACCGAATACAAGAAC
CTGGGTTGCCAAAATGATATCAGCTGTCGTGGCTATGGCCTGCTGATC
ATGGTGGCGAACATGGTATTCCCATCAAGGACATCAAAGAAAAGTCAAATGT
AGGTTGCATGGAGTTAAAAGGAGTTGGAAGAAACTGGCATTGCTAACAA
ACTTCATCTGTGGCAATATTTTAAATTCTCAGTCATCATTGATATCC
AACTTCCTGCAATCAGACAACACTCTATAGAAATAGAGACAACACAAACTATCC
AAGTGTGAAATCAGCTCTGCTCCACATTCTCTTGGTACAGCTAGTTACATCA
TATGCTTGTCCCTACCAACGCTGTCAGGATCCCATAACCCCTCAGGCCAGACA
GAGGTCAATCTGATTGCTCAACTAGGATCGCACTCTCAAAGCCAAAGAGGC
CACACTGCTGCTGGCGGTGTCTAATTGTTGATCCAATCCTGTACTATC
ATCTGTCAAAAGCCTTCGACTAAAGGTACCGAGACTTTCGCCTCACCTAAA
AAGAGCAAGCCTCTGGAAGAAAGATTGAGAAGTGAGAATGATGTGAAAATGC
AGGCTTGCACGTTAGTCCTCTCCTGACTGGACCATAAGCTGGTCACAGT
TTTC (SEQ ID NO:1)

FIGURE 1

Construct

Gene:

17

GI Number(s): 1738456

Gene Family:

GPCR

1749042

Gene

Subfamily:

Orphan GPCR

Gene Sequence: EST contig, Mouse

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

```

ATTGGGCACTGAGGAG [TTAATACACAGCTGCAAGATATACCGAATACAAGAACCTGGGT
TTGCCAAAATGATATCAGCTGTCGTGGCTCATGGCCTGCTGATCATGGTGCCAAC
TGGTGA ] TTCCCATCAAGGACATCAAAGAAAAGTCAAATGTAGGTTGCATGGAGTTAAA
AAGGAGTTTGGAGAGAACTGGCATTGCTAACAAACTTCATCTGTGTGCAATATTTTA
AATTTCAGTCATCTTTGATATCCAACCTTCCTGCAATCAGACAACCTATAGAAAT
AGAGACAACACAACATATCCAAGTGTGAAATCAGCTCTGCTCCACATTCTTTGGTGACA
GCTAGTTACATCATATGCTTTGTTCCCTACACCGCTGTCAAGGATCCCATAACACCCCTCAGC
CAGACAGAGGTATATCTGATTGCTCAACTAGGATCGCACTCTTCAAAGCCAAGAGGCC
ACACTGCTGCTGGCGGTGTCTAATTGTGTTTGATCCAATCCTGTACTATCATCTGTCA
AAAGCCTTTCGACTAAAGGTACCGAGACTTTCGCCTCACCTAAAAGAGCAAGCCTCTG
GAAGAAAGATTGAGAAGTGTGAAATGATGTGAAAATGCAGGCTTTGCACGTTAGTCTTC
TTCCTG [ACTGGACCATAAAAGCTGGTACAGTTT] ]

```

Gene Sequence
Structure *

126 bp

Sequence Deleted

664 bp

Size of EST contig: 693 bp



FIGURE 2A

Targeting Vector* (genomic sequence)

Construct Number: 87

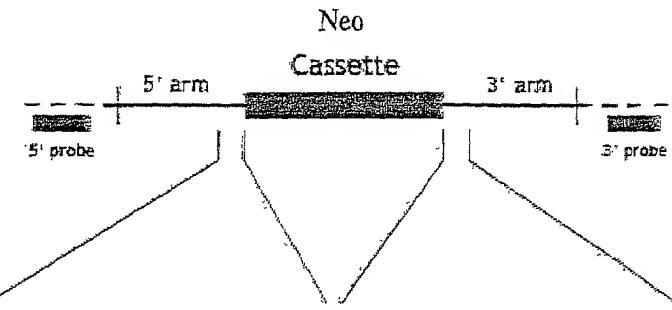
Arm Length:

5': 8 kb

3': 1.6 kb

— Targeting Vector
 - - - Endogenous Locus

* Not drawn to scale

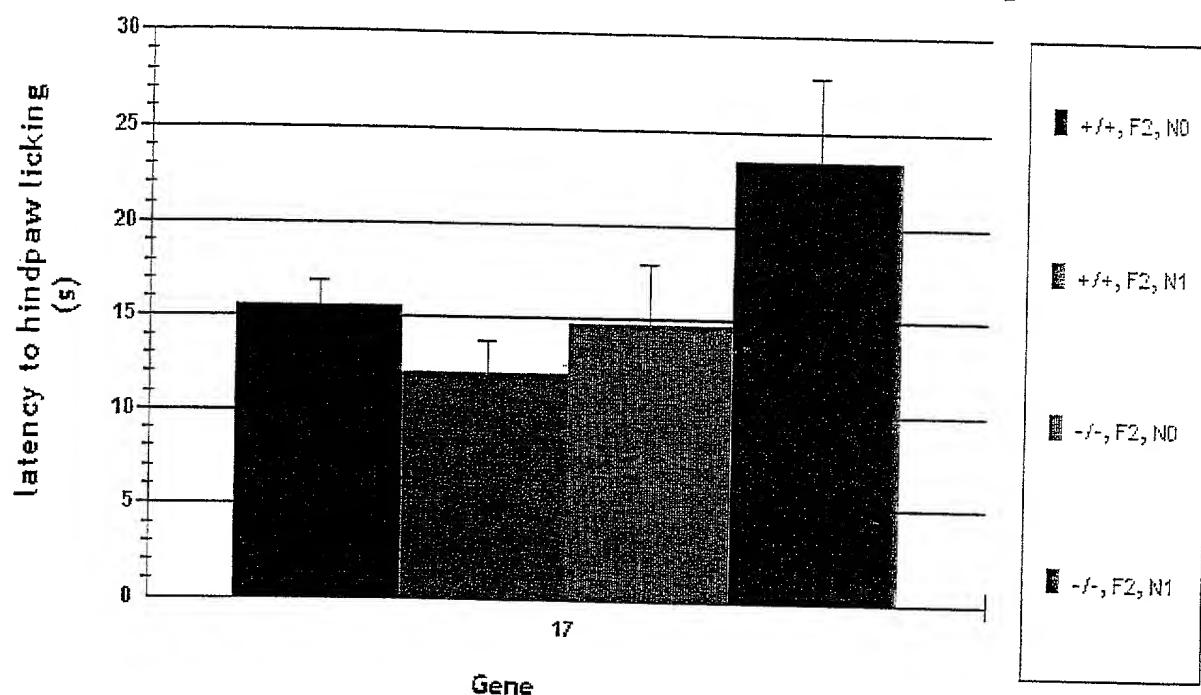


5' >CCACTGCCAAGTGACAGCCTG CCTCATCTACATCAATATGTACTT ATCTATTATCTTCTTAGCCTTG CAGCATCGATCGCTGTCTCAGTT AATAACACAGCTGCAAGATATACCG AATACAAGAACCTGGGTTGCCAA AATGATATCAGCTGTCGTGTTGGCT CATGGTCCTGCTGATCATGGTGTC AACACATGGTGA<3' (SEQ ID NO:2)	5' >ACTGGACCATAAGCTGGTCA CAGTTTTCAAAAATAAAAGAAGAT GCTGAGATAGAAGAAGATGCTTAG GAATAAGAGCCACCAATAGCTAGC AACGGGACTGGTTCATGCAGAAA GTCCCTTCTTCATCCAAGCCAAC CCTGCACCTCACAGATGCTGACA TTCTTTACCTAACAAAGCACATTG AACCAAGGTCA<3' (SEQ ID NO:3)
---	--

FIGURE 2B

4/5

hot plate - latency to hindpaw licking



© Deltagen, Inc.

FIGURE 3

Phenotypic Data Summary - Open Field

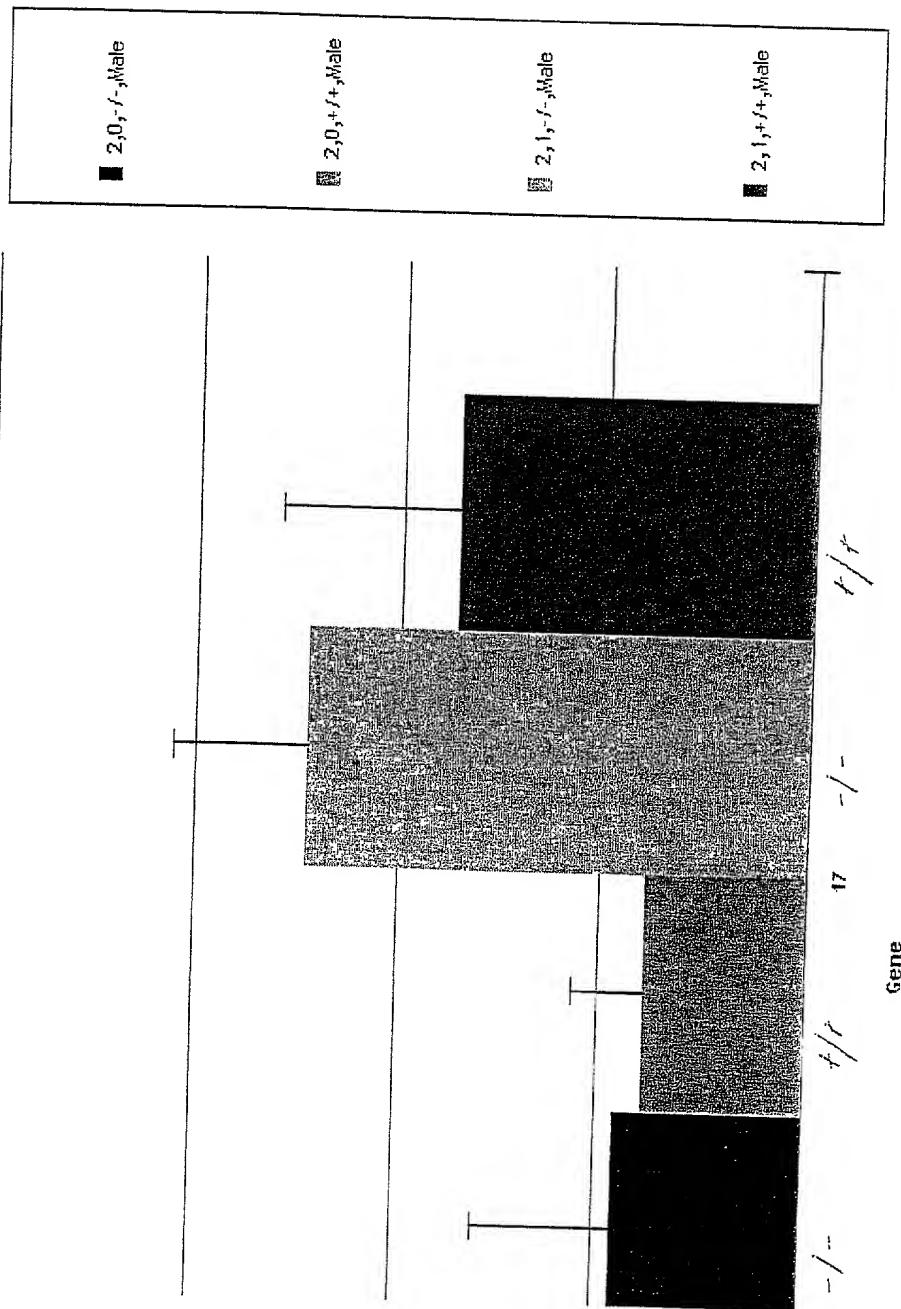


FIGURE 4